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NOTICE OF ALLOWANCE AND FEE(S) DUE

50446

7590

11/16/2009

HOXIE & ASSOCIATES LLC 75 MAIN STREET, SUITE 301 MILLBURN, NJ 07041 EXAMINER

CHANG, CELIA C

ART UNIT PAPER NUMBER

1625 DATE MAILED: 11/16/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,208	10/27/2005	Mezher Hussein Ali	AC-21-US	3691

TITLE OF INVENTION: PIPERIDINETRIOL DERIVATIVES AS INHIBITORS OF GLYCOSYCERAMID SYNTHASE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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50446 HOXIE & ASS 75 MAIN STRE MILLBURN, N	SOCIATES LLC ET , SUITE 301	/2009	I her State addr trans	Certificeby certify that this less Postal Service with essed to the Mail Smitted to the USPTO	cate of Mailing or Trans Fee(s) Transmittal is bein sufficient postage for fir top ISSUE FEE address (571) 273-2885, on the o	smission g deposited with the United st class mail in an envelope above, or being facsimile date indicated below.
						(Depositor's name)
			<u> </u>			(Signature)
	_					(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	A	ITORNEY DOCKET NO.	CONFIRMATION NO.
10/522,208	10/27/2005	NEDIVA ENTEGA GINHHI	Mezher Hussein Ali	ED A MID CAZNELLA C	AC-21-US	3691
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/16/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
CHANG,		1625	514-328000			
 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 1. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. 1. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attorlisted, no name will be	3 registered patent a ely, e firm (having as a m gent) and the names neys or agents. If no	ember a 2 of up to	
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	ess an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NO	(B) RESIDENCE: (CITY	ttent. If an assignee assignment. and STATE OR CO	JNTRY)	locument has been filed for
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual	oration or other private gr	oup entity 🗖 Government
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Authorized Signature				Date		
Typed or printed name				Registration No.		
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/522,208	10/27/2005	Mezher Hussein Ali	AC-21-US 3691		
50446 75	590 11/16/2009		EXAM	INER	
HOXIE & ASSC	CIATES LLC	CHANG, CELIA C			
75 MAIN STREE			ART UNIT	PAPER NUMBER	
MILLBURN, NJ 07041			1625		
			DATE MAILED: 11/16/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 579 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 579 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/522,208	ALI ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Celia Chang	1625		
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSE or other appropriate co GHTS . This application	ED in this application. If not inclummunication will be mailed in du	ded e course. THIS	
1. This communication is responsive to <u>9/01/09 RCE</u> .				
2. \boxtimes The allowed claim(s) is/are <u>1-11,13 and 14</u> .				
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Appli	cation No	ation from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			equirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			NOTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached				
1) hereto or 2) to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date				
ldentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).				
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			Note the	
Attachment(s)	5 □ Nucces	of la former Dataset Associated		
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		of Informal Patent Application w Summary (PTO-413),		
	Paper	No./Mail Date		
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 8/4/09, 9/1/09 	/. ∐ Examin	er's Amendment/Comment		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	_	er's Statement of Reasons for Al	lowance	
	9. Other _			
	/Celia Cha Primary Exa	ng/ aminer, Art Unit 1625		

Application/Control Number: 10/522,208

Art Unit: 1625

DETAILED ACTION

Page 2

1. This application is a RCE of SN 10/522,208.

Claims 12, 15-30 have been canceled. Claims 1-11, 13-14 are pending.

2. Reason for Allowance

The following is an examiner's statement of reasons for allowance:

Applicants have deleted the scope of prodrug thus obviated the 112 fist and second paragraph rejections. Applicants have explicitly included the "S" or "R" notation at each chiral center thus obviated the ambiguity and anticipation, thus, the rejection under 35 USC 102(b). Applicants argued that although azasugars are known for biological activity but modification in stereorelationships have been evidenced to be highly unpredictable of maintaining the same activity as the parent compound such as pointed out by applicant that:

"as can be seen (in hindsight) in Tables 2 and 3 of Kato et al., L-ido-DNJ and L-manno-DNJ are not active against any enzyme at all and would not be an alternative choice for D-manno-DNJ or D-ido-DNJ as one isomer has inhibitory activities against specific glycosidases while the other isomer does or may not have inhibitory activities at all. Therefore, it is difficult to rationalize, in hindsight, the inhibitory activities of the various enantiomers of imino sugar compounds, let alone predict the activity of an enantiomer against a particular enzyme" (p.14 response 8/4/09)

Therefore, the currently amended claims explicitly pointed to the very particular enantiomer of formula I are neither anticipated nor rendered obvious by the art of record. The rejections under 35 USC 103(a) or obviousness type double patenting are dropped. Claims 1-11, 13-14 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Celia Chang, Ph. D. whose telephone number is 571-272-0679. The examiner can normally be reached on Monday through Thursday from 8:30 am to 5:00 pm.

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Art Unit: 1625

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet L. Andres, Ph. D., can be reached on 571-272-0867. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

OACS/Chang Oct. 26, 2009

/Celia Chang/ Primary Examiner Art Unit 1625